UNITED STATES OF AMERICA OFGS FILE NO. COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION P/1071-1440 As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that I verily believe that I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named) of the subject matter which is claimed and for which a patent is sought on the invention entitled: MULTILAYER CERAMIC SUBSTRATE AND MANUFACTURING METHOD THEREFOR the specification of which is attached hereto, unless the following box is checked: was filed on as United States patent Application Number or PCT International patent application number and was amended on I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to be material to patentability in accordance with Title 37, Code of Federal Regulations, I hereby claim priority benefits under Title 35, United States Code §119 of any foreign application(s) for patent or inventor's certificate or United States provisional application(s) listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed: Prior Foreign or Provisional Application(s) PRIORITY CLAIMED UNDER 35 U.S.C. 119 COUNTRY APPLICATION NUMBER DATE OF FILING (day, month, year) NO September 7, 2000 Japan 2000-271323 YES YES I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application. UNITED STATES APPLICATION NUMBER DATE OF FILING **STATUS** (day, month, year) (patented, pending, abandoned) I hereby appoint customer no. 2352 OSTROLENK, FABER, GERB & SOFFEN, LLP, and the members of the firm, Samuel H. Weiner - Reg. No. 18,510; Jerome M. Berliner - Reg. No. 18,653; Robert C. Faber - Reg. No. 24,322; Edward A. Meilman - Reg. No. 24,735; Steven I. Weisburd - Reg. No. 27,409; Max Moskowitz - Reg. No. 30,576; Stephen A. Soffen - Reg. No. 31,063; James A. Finder - Reg. No. 30,173; William O. Gray, III - Reg. No. 30,944; Louis C. Dujmich - Reg. No. 30,625, Douglas A. Miro - Reg. No. 31,643, and Michael J. Scheer - Reg. No. 34,425, as attorneys with full power of substitution and revocation to prosecute this application, to transact all business in the Patent & Trademark Office connected therewith and to receive all correspondence. OSTROLENK, FABER, GERB & SOFFEN, LLP 1180 AVENUE OF THE AMERICAS NEW YORK, NEW YORK 10036-8403 CUSTOMER NO. 2352 DIRECT TELEPHONE CALLS TO: (212) 382-0700 SEND CORRESPONDENCE TO: I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. FULL NAME OF SOLE OR FIRST INVENTOR INVENTOR'S SIGNATURE Harada Hideyuki HARADA COUNTRY OF CITIZENSHIP RESIDENCE (City and either State or Foreign Country) Japan Omihachiman-shi, Shiga-ken, Japan POST OFFICE ADDRESS c/o (A170) Intellectual Property Department, Murata Manufacturing Co., Ltd., 26-10, Tenjin 2-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan FULL NAME OF SECOND JOINT INVENTOR (IF ANY) INVENTOR'S SIGNATURE Hirofumi SUNAHARA Kirobumi Sanahara COUNTRY OF CITIZENSHIP RESIDENCE (City and either State or Foreign Country)

Moriyama-shi, Shiga-ken, Japan

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Ianan

POST OFFICE ADDRESS

c/o (A170) Intellectual Property Department, Murata Manufacturing Co., Ltd., 26-10, Tenjin 2-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, Japan

UNITED STATES OF AMERICA COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION			OFGS FILE NO. $P/1071-1440$	
COUNTRY	APPLICATION NUMBER			PRIORITY CLAIMED UNDER 35 U.S.C. 119
		(day, month, ye	:41)	YES NO
				YES NO
:				YES NO
				YES NO
believed to be true; and further that punishable by fine or imprisonment, jeopardize the validity of the applica		knowledge that willful false s 18 of the United States Code	tatements and and that sucl	I the like so made are h willful false statements may
FULL NAME OF THIRD JOINT INVENTOR, IF ANY Hiroshi TAKAGI		Hiroshi Jahan Angust 20, 2001		
RESIDENCE (City and either State or Otsu-shi, Shiga-ken, Jap		country of citizenship Japan		
` ,	Property Department, Mur , Kyoto-fu 617-8555, Japa	-	Co., Ltd.,	26-10, Tenjin 2-
FULL NAME OF FOURTH JOINT INVENTOR, IF ANY YUKIO SAKABE		INVENTOR'S SIGNATURE	_	DATE
		Mikes saled		August, 21, 2001
RESIDENCE (City and either State or Foreign Country) Kyoto-shi, Kyoto-fu, Japan			Japan	Y OF CITIZENSHIP
, ,	Property Department, Mur, Kyoto-fu 617-8555, Japa	_	Co., Ltd.,	, 26-10, Tenjin 2-
FULL NAME OF FIFTH JOINT INVENTOR, IF ANY		INVENTOR'S SIGNATURE		DATE
RESIDENCE (City and either State or Foreign Country)			COUNTRY	Y OF CITIZENSHIP
POST OFFICE ADDRESS				
FULL NAME OF SIXTH JOINT INVENTOR, IF ANY		INVENTOR'S SIGNATURE		DATE
RESIDENCE (City and either State or	.i	COUNTRY	Y OF CITIZENSHIP	
POST OFFICE ADDRESS				